





PTO/SB/08B (Modified)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	09/501,622		
		Filing Date	February 9, 2000		
		First Named Inventor	Mills		
		Group Art Unit	1754		
Examiner Name	Langel				
Sheet	2	of	14	Attorney Docket Number	62-226-8AC4-DIV2

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Abelès, Ed. Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'." <i>Optical Properties of Solids</i> , 1972, pp. 718-754.	
		Alger et al. "F Centers in Pure and Hydride-Containing Alkali Halide crystals." <i>Physical Review</i> , Vol 97, January 15, 1955, pp. 277-287.	
		Arfken. "Mathematical Methods for Physicists." <i>Academic Press</i> , 1970, pp. 413-415.	
		Baard, Erik. "Quantum Leap." <i>The Village Voice</i> , Dec 22-28, 1999.	
		Baard, Erik. "Researcher Claims Power Tech That Defies Quantum Theory." <i>Dow Jones Newswires</i> , Oct 6, 1999.	
		Bäuerle et al. "Infrared Vibrational Absorption by U-Centers in NaI." <i>Phys. Stat. Sol.</i> , Vol 24, 1967, pp. 207-215.	
OK		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	61
		Bethe, et. al. "Quantum Mechanics of One and Two-Electron Atoms." <i>Cornell University</i> , 1977, pp. 2, 9-12, 47, 83-84, 92, 107.	
		Boniface, et. al. "Calorimetry for a Ni/K <sub>2</sub> CO <sub>3</sub> Cell." AECL Research, June 1994.	
		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
		Bush. "A Light Water Excess Heat Reaction Suggests That 'Cold Fusion' May Be 'Alkali-Hydrogen Fusion'." <i>Fusion Technology</i> , Vol 22, Sept. 1992, pp. 301-322.	

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		Clark, et. al. "Excess Energy Cell Final Report." April 1995.	
		Delbecq et al. "Pragmatic Resonance Investigation of Irradiated KCl Crystals Containing U-Centers." <i>Phys. Rev.</i> , Vol 104, Nov 1, 1956, pp. 599-604.	
		Dötsch et al. "Localized Vibrations of H <sup>+</sup> and D <sup>+</sup> Ions in NaF and LiF." <i>Solid States Communications</i> , Vol 3, 1965, pp. 297-298.	
SK		Durr, et. al. "Origin of quantum-mechanical complementarity probed by a 'which-way' experiment in an atom interferometer." <i>Nature</i> , Vol 395, September 3, 1998, pp. 33-37.	58
		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 40150, March 1994.	
		Evans, et. al. "XPS/ESCA Results." CE & A Number 44545, Nov 1994.	
		Feynman, et al. "The Feynman Lectures of Physics: Quantum Mechanics." 1965.	
		Fine, Arthur. "The Shaky Game: Einstein Realism and the Quantum Theory." <i>The University of Chicago Press</i> , 1986, pp.64-85.	
		Fischer. "Die optische Absorption der U <sub>2</sub> -Zentren in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , Vol 131, 1952, pp. 488-504.	
		Fischer et al. "Sh <sup>+</sup> , S <sup>+</sup> Und S <sup>+</sup> Zentren In KCl-Kristallen." <i>Physics Letters</i> , Vol 13, Oct. 27, 1964, pp. 113-114.	
		Fried et al. "Solution for the Two-Electron Correlation Function in a Plasma." <i>The Physical Review</i> , Vol 122, Apr. 1, 1961, pp. 1-8.	
		Fritz. "Anionlücken und Zwischengitterionen in Alkalihalogenid-Alkalihydrid-Mischkristallen." <i>J. Phys. Chem. Solids</i> , Vol 23, 1962, pp. 375-394.	

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		Fujimoto, et. al. "Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma." <i>J. Appl. Phys.</i> , Vol 66, No 6, Sept. 1989, pp. 2315-2319.	
		Hansen, et. al. "A response to hydrogen + oxygen recombination and related heat generation in undivided electrolysis cells." <i>J. of Electroanalytical Chemistry</i> , Vol 447, 1998, pp. 225-226.	
SJK		Haus. "On the radiation from point charges." <i>American Journal of Physics</i> , Vol 54, No 12, December 1986. Pp. 1126-1129.	
		Hayashi, Shigenobu. "Accurate determination of <sup>1</sup> H Knight shifts in Mg <sub>2</sub> NiH <sub>x</sub> and MgH <sub>x</sub> by means of high-speed magic angle spinning." <i>Journal of Alloys and Compounds</i> , Vol 248, 1997, pp. 66-69.	
		Hayashi, et. al. " <sup>1</sup> H NMR and magnetization measurements of a nanostructured composite material of the Mg <sub>2</sub> Ni-H system synthesized by reactive mechanical grinding." <i>Journal of Alloys and Compounds</i> , Vol 256, 1997, pp. 159-165.	
		Hayashi, et. al. "Local structures and hydrogen dynamics in amorphous and nanostructured Mg-Ni-H systems as studied by <sup>1</sup> H and <sup>2</sup> H nuclear magnetic resonance."	
		Heisenberg, W. "Über den anschaulichen Inhalt der quantentheoretischen Kinematik und Mechanik." <i>Zeitschrift für Physik</i> , Vol 43, 1927, pp. 172-198.	
		Heitler, W. "The Quantum Theory of Radiation." <i>University of Zürich</i> , 1984, pp. 104.	
		Hilsch. "Eine neue Lichtabsorption in Alkalihalogenidkristalle." <i>Fachgruppe II</i> , pp. 322-328.	
		Hilsch. "Über die Diffusion und Reaktion von Wasserstoff in KBr-Kristallen." <i>Annalen der Physik</i> , Vol 40, 1937, pp. 407-720.	

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		Hollander, et. al. "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen." <i>J. Vac. Sci. Technol.</i> , A12 (3), May/June 1994, pp.879-882.	
		Jackson, John David. "Classical Electrodynamics." <i>University of California</i> , Berkley, 1975, Ch. 14.	
		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG & G Idaho, Inc., Nov 1993.	
		Jansson. "Hydrocatalysis:: A New Energy Paradigm for the 21 <sup>st</sup> Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.	
		Jeffreys, et al. "Methods of Mathematical Physics." <i>Cambridge</i> , 1950, pp.618.	
SJK		Karaplus and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567.	60
		Kerkhoff. "Zum photochemischen Verhalten sauerstoffhaltiger Komplexe in Alkalihalogenidkristalle." <i>Zeitschrift für Physik</i> , Vol 158, 1960, pp.595-606.	
		Kerkhoff et al. "Electronenspin-Resonanz und Photochemie des U <sub>2</sub> -Zentrums in Alkalihalogenid-Kristallen." <i>Zeitschrift für Physik</i> , Vol 173, 1963, pp.184-202.	
		Kleinschrod. "Photochemische Zersetzung von KH und KD in KBr-Kristallen." <i>Ausgegeben</i> , Jan. 5, 1939, pp. 143-148.	
		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	

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		Kolos, et. al. "Accurate Adiabatic Treatment of the Ground State of the Hydrogen Molecule*." <i>Journal of Chemical Physics</i> , Vol 41, No 12, Dec 1964, pp. 3663-3673.	
		Kolos, et. al. "Accurate Electronic Wave Functions for the H <sub>2</sub> Molecule*." <i>Reviews of Modern Physics</i> , Vol 32, No 2, April 1960, pp. 219-232.	
		Kolos, et. al. "Improved Theoretical Ground-State Energy of the Hydrogen Molecule*." <i>Journal of Chemical Physics</i> , Vol 49, No 1, July 1968, pp. 404-410.	
		Kuraica, et. al. "Line Shapes of Atomic Hydrogen in a Plane-Cathode abnormal glow discharge." <i>Physical Review A</i> , No. 46, No 7, October 1992, pp. 4429-4432.	
		Kurunczi, et. al. "Hydrogen Lyman- $\alpha$ and Lyman- $\beta$ emissions from high-pressure micro hollow cathode discharges in..." <i>J. Phys. B: At. Mol. Opt. Phys.</i> , Vol 32, 1999, pp. L651-L658.	
		Kurtz, et. al. "Report on Calometric Investigations of Gas-Phase Catalyzed Hydrino Formation." Hydrocatalysis Power Corp. Report, December 1996.	
		Lüpke. "Über Sensibilisierung der photochemischen Wirkung in Alkalihalogenidkristallen." <i>Annalen der Physik</i> , Vol 21, 1934, pp. 1-14.	
		Lüty. "Über Die Natur Der V <sub>3</sub> -Zentren In Strahlungsverfärbtem KCCl." <i>J. Phys. Chem. Solids</i> , Vol 23, 1962, pp. 677-681.	
		Margenau, et. al. "The Mathematics of Physics and Chemistry." <i>Yale University</i> , 1943, pp. 77-79.	
		Martienssen. "Photochemische Vorgänge in Alkalihalogenidkristallen." <i>Zeitschrift für Physik</i> , Vol 131, 1952, pp. 488-504.	

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		Merzbacher, Eugen. "Quantum Mechanics." 1961, p. 198.	
		Messiah, Albert. "Quantum Mechanics." <i>Rutgers-The State University</i> , Vol 1, 1958, p. 130.	
		Meulenbroeks, et. al. "The argon-hydrogen expanding plasma: model and experiments." <i>Plasma Sources Sci Technol</i> , Vol 4, 1995, pp. 74-85.	
		Meulenbroeks, et. al. "Influence of molecular processes on the hydrogen atomic system in an expanding argon-hydrogen plasma." <i>Phys. Plasmas</i> , Vol 2, No 3, March 1995pp. 1002-1008.	
		Morse, et. al. "Methods of Theoretical Physics." <i>Massachusetts Institute of Technology</i> , Part 1: Chapters 1-8, 1953, pp. 808-903.	
		Neynaber, et. al. "Formation of HeH <sup>+</sup> from Low-Energy Collisions of Metastable Helium and Molecular Hydrogen." <i>Journal of Chemical Physics</i> , Vol 57, No 12, 1972, pp. 5128-5137.	
SL		Park, Robert L. "Perpetual Motion: Still Going Around." <i>Washington Post</i> , January 12, 2000, pg H03.	
		Pauling, et. al. "Introduction to Quantum Mechanics with Applications to Chemistry." <i>Harvard University</i> , 1985, pp. 121-140.	
		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, <i>Westinghouse STC</i> , Feb 1994.	
		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and Pd/Carbon." Consulting Report, Jan 1996.	

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		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- $\alpha$ Excitation in Ar II Radio-Frequency Discharges." <i>J. Appl. Phys.</i> , Vol 78, No 2, July 1995, pp. 746-756.	
		Rauch et al. "Some F-Band Optical Oscillator Strengths in Additively Colored Alkali Halides." <i>Physical Review</i> , Feb 1, 1957, Vol 105, pp. 914-920.	
		Rudd, et. al. "Backward Peak in the Electron Spectrum from Collisions of 70-keV Protons with a Target from a Hydrogen-Atom Source." <i>Physical Review Letters</i> , Vol 68, No 10, March 1992, pp. 1504-1506.	
		Schaefer. "Das Ultrarote Spektrum Des U-Zentrums," <i>Phys. Chem. Solids</i> , 1960, 12, pp. 233-244, Pergamon Press, Great Britain.	
		Scheerer et al. "Microwave Saturation of Paraelectric-Resonance Transitions of OH <sup>-</sup> Ions in KCl." <i>Solid State Communications</i> , Vol 4, 1966, pp. 639-642.	
		Schiff, Leonard I. "Quantum Mechanics." <i>Stanford University</i> , 1968, pp. 1, 7-8, 10-12, 21, 54-57, 60-61, 81-82, 101, 527.	
		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.	
		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
		Thomas. "Zur Photochemie des KH-KBR-Mischkristalles." <i>Annalen der Physik</i> , Vol 38, 1940, pp. 601-608.	
		Thorne, et. al. "Recombination during the Electrolysis of Light Water in 0.6 M K <sub>2</sub> CO <sub>3</sub> Can It Account for the Reports of Excess Heat?" <i>Departments of Physics and Chemistry, Brigham Young University</i> , June 1993.	

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		<del>Tolman, Richard C. "The Principles of Statistical Mechanics." California Institute of Technology, 1979, pp. 180-188.</del>	
DL		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	59
		<del>Wheeler, et. al. "Quantum Theory and Measurement." Translation of Heisenburg's Uncertainty Principle Paper, <i>Zeitschrift für Physik</i>, 1927, Vol 43, pp. 172-198.</del>	

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		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces" <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430.	
		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some quantitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.	
		Dery, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.	
		Roberts, et al. "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge." <i>J. Appl. Phys.</i> , Vol 74, No 11, December 1993.	
		Videnovic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 51, 1996, pp. 1707-1731.	

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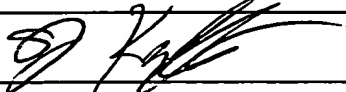
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number	09/501,622		
		Filing Date	02/09/2000		
		First Named Inventor	Mills		
		Group Art Unit	1754		
		Examiner Name	Langel		
Sheet	12	of	14	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SK		H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.	70
SK		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Chem. Phys. Letts., submitted.	71
SK		R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", Int. J. Hydrogen Energy, submitted.	72
SK		R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", Int. J. Hydrogen Energy, submitted.	73
SK		R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.	74
SK		R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.	75
SK		R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17 <sup>th</sup> Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.	76
SK		R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.	77


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OK		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted	78
OK		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted	79
OK		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted.	80
OK		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted.	81
OK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted.	82
OK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted.	83
OK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted.	84
OK		R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press.	85


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OK		R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.	86
OK		R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.	87
OK		R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.	88
OK		R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.	89
OK		R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.	90
OK		R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, <i>Hydrogen: The Common Thread</i> , The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.	91
		<del>Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation,"</del>	
OK		R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001), Distributed by Amazon.Com.	93

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